Project Title	Funding	Institution
Aberrant synaptic form and function due to TSC-mTOR-related mutation in autism spectrum disorders	$300,000	Columbia University
Aberrant synaptic function caused by TSC mutation in autism	$0	Columbia University
A cerebellar mutant for investigating mechanisms of autism in Tuberous Sclerosis	$0	Boston Children's Hospital
Activity-dependent phosphorylation of MeCP2	$174,748	Harvard Medical School
Allelic choice in Rett syndrome	$390,481	Winifred Masterson Burke Medical Research Institute
A stem cell based platform for identification of common defects in autism spectrum disorders	$28,000	Scripps Research Institute
Augmentation of the cholinergic system in fragile X syndrome: a double-blind placebo study	$237,600	Stanford University
Autism phenotypes in Tuberous Sclerosis: Risk factors, features & architecture	$0	King's College London
BDNF and the restoration of synaptic plasticity in fragile X and autism	$490,756	University of California, Irvine
Coordinated control of synapse development by autism-linked genes	$75,000	University of Texas Southwestern Medical Center
Cortical circuit changes and mechanisms in a mouse model of fragile X syndrome	$278,656	University of Texas Southwestern Medical Center
Development of novel diagnostics for fragile X syndrome	$537,123	JS Genetics, Inc.
dFMRP and Caprin: Translational regulators of synaptic plasticity	$12,768	University of Washington
Dysregulation of mTOR signaling in fragile X syndrome	$403,767	Albert Einstein College of Medicine of Yeshiva University
Elucidation and rescue of amygdala abnormalities in the Fmr1 mutant mouse model of fragile X syndrome	$150,000	George Washington University
Emergence and stability of autism in fragile X syndrome	$358,000	University of South Carolina
Functional circuit disorders of sensory cortex in ASD and RTT	$254,976	University of Pennsylvania
Genetically defined stem cell models of Rett and fragile X syndrome	$175,000	Whitehead Institute for Biomedical Research
Genetic rescue of fragile X syndrome in mice by targeted deletion of PIKE	$60,000	Albert Einstein College of Medicine of Yeshiva University
Genotype-phenotype relationships in fragile X families	$530,124	University of California, Davis
Grammatical development in boys with fragile X syndrome and autism	$148,500	University of Wisconsin - Madison
Identification of targets for the neuronal E3 ubiquitin ligase PAM	$60,000	Massachusetts General Hospital
Investigating the homeostatic role of MeCP2 in mature brain	$35,400	Baylor College of Medicine
Investigation of protocadherin-10 in MEF2- and FMRP-mediated synapse elimination	$51,326	University of Texas Southwestern Medical Center
In-vivo imaging of neuronal structure and function in a reversible mouse model for autism.	$28,000	Baylor College of Medicine
Limbic system function in carriers of the fragile X premutation	$677,700	University of California, Davis
Limbic system function in carriers of the fragile X premutation (supplement)	$382,500	University of California, Davis
L-type calcium channel regulation of neuronal differentiation	$32,129	Stanford University
Mechanism of UBE3A imprint in neurodevelopment	$33,616	University of California, Davis
Mechanisms of mGluR5 function and dysfunction in mouse autism models	$419,137	University of Texas Southwestern Medical Center

Project Title	Funding	Institution
Mechanisms of synapse elimination by autism-linked genes	$75,000	University of Texas Southwestern Medical Center
MeCP2 modulation of bdnf signaling: Shared mechanisms of Rett and autism	$314,059	University of Alabama at Birmingham
Mesocorticolimbic dopamine circuitry in mouse models of autism	$87,337	Stanford University
MicroRNAs in synaptic plasticity and behaviors relevant to autism	$131,220	Massachusetts General Hospital
Modulation of fxr1 splicing as a treatment strategy for autism in fragile X syndrome	$0	Stanford University
Mouse models of human autism spectrum disorders: Gene targeting in specific brain regions	$300,000	University of Texas Southwestern Medical Center
Mouse models of the neuropathology of tuberous sclerosis complex	$253,177	University of Texas Health Science Center at Houston
Neurobiology of RAI1, the causal gene for Smith-Magenis syndrome	$31,022	Stanford University
Neuronal activity-dependent regulation of MeCP2	$426,857	Harvard Medical School
New approaches to local translation: SpaceSTAMP of proteins synthesized in axons	$246,254	Dana-Farber Cancer Institute
Olfactory abnormalities in the modeling of Rett syndrome	$351,575	Johns Hopkins University
Pathophysiology of MeCP2 spectrum disorders	$170,383	Baylor College of Medicine
Pleiotropic roles of dyslexia genes in neurodevelopmental language impairments	$41,800	Yale University
Predicting phenotypic trajectories in Prader-Willi syndrome	$310,752	Vanderbilt University
Presynaptic fragile X proteins	$90,000	Brown University
Probing a monogenic form of autism from molecules to behavior	$187,500	Stanford University
Proteomics in drosophila to identify autism candidate substrates of UBE3A	$313,159	University of Tennessee Health Science Center
Proteomics in drosophila to identify autism candidate substrates of UBE3A (supplement)	$29,600	University of Tennessee Health Science Center
Quantitative proteomic approach towards understanding and treating autism	$112,500	Emory University
Regulation of 22q11 genes in embroyonic and adult forebrain	$308,631	George Washington University
Regulation of synapse elimination by FMRP	$54,734	University of Texas Southwestern Medical Center
Revealing protein synthesis defects in fragile X syndrome with new chemical tools	$315,341	Stanford University
Role of intracellular mGluR5 in fragile X syndrome and autism	$150,000	Washington University in St. Louis
Sex differences in early brain development; Brain development in turner syndrome	$156,841	University of North Carolina at Chapel Hill
Study of fragile X mental retardation protein in synaptic function and plasticity	$366,516	University of Texas Southwestern Medical Center
Synaptic phenotype, development, and plasticity in the fragile X mouse	$401,852	University of Illinois at Urbana Champaign
The functional link between DISC1 and neuroligins: Two genetic factors in the etiology of autism	$0	Children's Memorial Hospital, Chicago

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The microRNA pathway in translational regulation of neuronal development	$352,647	University of Massachusetts Medical School
The role of intracellular metabotropic glutamate receptor 5 at the synapse	$26,338	Washington University in St. Louis
The role of MeCP2 in Rett syndrome	$329,781	University of California, Davis
The role of MeCP2 in Rett syndrome (supplement)	$38,273	University of California, Davis
The role of UBE3A in autism	$62,500	Harvard Medical School
TrkB agonist therapy for sensorimotor dysfunction in Rett syndrome	$0	Case Western Reserve University
Underlying mechanisms in a cerebellum-dependent model of autism	$0	Harvard Medical School